



ITW

Atty. Dkt. No. 047297-0138

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Zhonghua ZHOU et al.

Title: TITANIUM DIOXIDE FINE PARTICLES AND METHOD FOR  
PRODUCING THE SAME, AND METHOD FOR PRODUCING  
VISIBLE LIGHT ACTIVATABLE PHOTOCATALYST

Appl. No.: 10/663,769

Filing Date: 09/17/2003

Examiner: Unassigned

Art Unit: 1773

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

The foregoing documents came to Applicants' attention during a search of the corresponding European application. A copy of the European Search Report setting forth the portion of each reference considered relevant by the examiner is attached.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

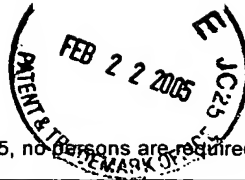
Respectfully submitted,

Date FEB 22 2005

By 

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Substitute for form 1449B/PTO  
**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Date Submitted: FEB 22 2005

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/663,769
Filing Date	09/17/2003
First Named Inventor	Zhonghua ZHOU
Group Art Unit	1773
Examiner Name	Unassigned
Attorney Docket Number	047297-0138

Sheet 1 of 1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	C1	4,668,501		SHIBUTA ET AL.	05-26-1987	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	C2	EP	1 205 244	A1	KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO	05-15-2002		
	C3	WO	02/38272	A1	NEOMAT S.A.	05-16-2002		
	C4	EP	0 997 191	A1	ECODEVICE LABORATORY CO., LTD.	05-03-2000		
	C5	EP	0 870 530	A1	NIPPON SHEET GLASS CO., LTD.	10-14-1998		

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	C6	Patent Abstracts of Japan, Vol. 2000, No. 01, 31 January 2000, JP 11-292537, 26 October 1999.	
	C7	Patent Abstracts of Japan, Vol. 2000, No. 03, 30 March 2000, JP 11-333300, 7 December 1999.	
	C8	C. Lettmann et al., "Visible light photodegradation of 4-chlorophenol with a coke-containing titanium dioxide photocatalyst", Applied Catalysis B: Environmental, Vol. 32, 2001, pages 215-227.	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.